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(54) **PRODUCTION OF PROTEINS IN GLUTAMINE-FREE CELL CULTURE MEDIA**(71) Applicant: **GENENTECH, INC.**, South San Francisco, CA (US)(72) Inventors: **Martin Gawlitzek**, Redwood City, CA (US); **Shun Luo**, Irvine, CA (US); **Christina Teresa Bevilacqua**, San Ramon, CA (US)(73) Assignee: **GENENTECH, INC.**, South San Francisco, CA (US)

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(58) **Field of Classification Search**CPC C12N 5/18
See application file for complete search history.(56) **References Cited**

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ABSTRACT

The present invention relates generally to glutamine-free cell culture media supplemented with asparagine. The invention further concerns the production of recombinant proteins, such as antibodies, in asparagine-supplemented glutamine-free mammalian cell culture.